PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

| Applicant's or agent's file reference 2003/CVG018 | FOR FURTHER ACTION | See item 4 below |
|---|---|---|
| International application No. PCT/EP2004/008230 | International filing date (day/month/year) 23 July 2004 (23.07.2004) | Priority date (day/month/year) 30 July 2003 (30.07.2003) |
| International Patent Classification (8th See relevant information in Form P | edition unless older edition indicated) CT/ISA/237 | · |
| Applicant CELANESE VENTURES GMBH | | |

| 1. | This international preliminary n International Searching Authori | eport on patentability (Chapter I) is issued by the International Bureau on behalf of the ity under Rule 44 bis.1(a). |
|---------|---|---|
| 2. | This REPORT consists of a total | al of 11 sheets, including this cover sheet. |
| | | rence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead. |
| 3. | This report contains indications | relating to the following items: |
| | Box No. I | Basis of the report |
| | Вох №. П | Priority |
| | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| | Box No. IV | Lack of unity of invention |
| | Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| | Box No. VI | Certain documents cited |
| | Box No. VII | Certain defects in the international application |
| | Box No. VIII | Certain observations on the international application |
| | • ' | |
| 4. | The International Bureau will c not, except where the applicant date (Rule 44bis .2). | ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority |
| <u></u> | | |

| | Date of issuance of this report 29 May 2006 (29.05.2006) |
|---|---|
| The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland | Authorized officer Ellen Moyse |
| Facsimile No. +41 22 740 14 35 | Telephone No. +41 22 338 89 75 |

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

Translation From the INTERNATIONAL SEARCHING AUTHORITY PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION 2003/CVG018 See paragraph 2 below International filing date (day/month/year) Priority date (day/month/year) International application No. PCT/EP2004/008230 23.07.2004 30.07.2003 International Patent Classification (IPC) or both national classification and IPC Applicant CELANESE VENTURES GMBH This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/EP Authorized officer Facsimile No. Telephone No

International application No.

PCT/EP2004/008230

| Box | No. I | Basis of this opinion |
|-----|---------------|--|
| 1. | | regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item. |
| | | This opinion has been established on the basis of a translation from the original language into the following language |
| | - | , which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)). |
| 2. | With | regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed |
| | | ntion, this opinion has been established on the basis of: |
| | a. | type of material |
| | | a sequence listing |
| | | table(s) related to the sequence listing |
| | b. | format of material |
| | | in written format |
| | | in computer readable form |
| | c. | contained in the international application as filed. |
| | | filed together with the international application in computer readable form. |
| | | furnished subsequently to this Authority for the purposes of search. |
| _ | $\overline{}$ | Living and the state of the sta |
| 3. | Ш | In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. |
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| 4. | Addi | itional comments: |
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| Во | Box No. II Priority | | |
|------------|----------------------------------|---|--|
| ,1. | The following documents | ent has not yet been furnished: | |
| | copy of the earlie | er application whose priority has been cla | nimed (Rule 43bis.1 and 66.7(a)). |
| | | earlier application whose priority has be | |
| | | t been possible to consider the validity of relevant date in the claimed priority date | f the priority claim. This opinion has nevertheless been established on . |
| 2. | | | claimed due to the fact that the priority claim has been found invalid in, the international filing date indicated above is considered to be the |
| 3. | 3. Additional observations, if n | ecessary: | |
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International application No.

PCT/EP2004/008230

| Box No. II | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
|-------------|---|
| | ons whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially have not been examined in respect of: |
| | the entire international application |
| \boxtimes | claims Nos. 6-9 |
| becaus | |
| | the said international application, or the said claims Nos. |
| | relate to the following subject matter which does not require an international preliminary examination (specify): |
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| | the description, claims or drawings (indicate particular elements below) or said claims Nos. |
| | are so unclear that no meaningful opinion could be formed (specify): |
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| | the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed. |
| | |
| | no international search report has been established for said claims Nos. 6-9 the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative |
| | Instructions in that: |
| | the written form has not been furnished |
| | does not comply with the standard |
| | the computer readable form has not been furnished |
| | does not comply with the standard |
| | the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions. |
| | See Supplemental Box for further details. |

| Box No. IV Lack of unity of invention | | | | | |
|---|--------------------------------|---------------------|------------------|-------------------|-----------------|
| 1. In response to the invitation (Form PCT/ | ISA/206) to pay additional f | ees the applicant l | nas: | | |
| paid additional fees | | | | | |
| paid additional fees under protest | | | | | • |
| not paid additional fees | | | | | |
| 2. This Authority found that the requirement additional fees. | ent of unity of invention is | not complied wit | h and chose no | t to invite the a | pplicant to pay |
| 3. This Authority considers that the requirement of | of unity of invention in acco | rdance with Rules | 13.1, 13.2 and | 13.3 is | |
| complied with | | | | | |
| not complied with for the following reason | ons: | | | | |
| See supplemental s | heet | | | | |
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| 4. Consequently, this opinion has been established | ed in respect of the followin | parte of the inter | national annlies | ation: | , |
| 4. Consequently, this opinion has been established | en in respect of the following | parts of the inter | apprice | | |
| the parts relating to claims Nos. 1-5 | • | | | | |

| Box | No. V Reasoned statemer citations and expla | nt under Ru mations sur | ile 43bis.1(a)(i) oporting such : | with regard statement | to novelty, in | ventive step | or industrial | applicability; | |
|-----|--|----------------------------|--------------------------------------|--------------------------|----------------|--------------|---------------|-----------------|------|
| ì. | Statement | | | | | | · | | |
| | Novelty (N) | Claims | | | | | | | YES |
| | | Claims | 1-5 | | | | | | ОИ |
| | Inventive step (IS) | . | | | | | | • | YES |
| | in via sup (ie) | Claims Claims | 1-5 | | | | | | - NO |
| | | Claims | | | | | | | |
| | Industrial applicability (IA) | Claims | 1-5 | | | | | · | YES |
| | | Claims | | | | · | | | . NO |
| 2. | Citations and explanations: | | | | | | | · · · · · · · · | |
| | See supplementa | l she | et | | | | | | • |
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| The following | g defects in the form or conte | nts of the international application have been noted: |
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| See | supplemental | sheet |
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International application No.
PCT/EP2004/008230

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Box IV, V, VII

Literature references cited:

- D1: CA-A-2 367 290 (HYDRO QUEBEC) 16 July 2003 (2003-07-16)
- D2: EP-A-0 760 379 (UNION CARBIDE CHEM PLASTIC) 5 March 1997 (1997-03-05)
- D3: EP-A-0 527 410 (BASF AG) 17 February 1993 (1993-02-17)
- D4: WO 92/09639 A (BAUSCH & LOMB) 11 June 1992 (1992-06-11)
- D5: US-A-5 089 570 (HUTH HANS-ULLRICH ET AL)
 18 February 1992 (1992-02-18)

1. Unity (PCT Article 3(4)(iii))

The International Preliminary Examining Authority shares the opinion of the International Searching Authority that the present application fails to meet the requirement of unity. The reasons for this can be seen from the supplemental sheet to the international search report.

The present, international preliminary substantive examination therefore concerns exclusively the subject matters of the present claims 1 to 5.

Novelty (PCT Article 33(2))

The present patent claim 1 discloses a polyvinyl polymer based on the general formula IV, IVa or IVb.

Supplemental Box

However, each of the abovementioned literature references D1 to D5 discloses one such polyvinyl polymer having all the technical features as defined in the present claim 1 (cf. the corresponding international search report for the relevant passages of text).

Each of the literature references D1 to D5 are therefore prejudicial to the novelty of current patent claim 1.

Similar considerations likewise apply for the additional features of current claims 2 to 5 in the context of the disclosure of the cited literature references D1 to D5.

Consequently, all the subject matters of the present application are in each case not novel in relation to the disclosure of literature references D1 to D5.

3. Inventive step (PCT Article 33(3))

Following submission of an amended main claim that satisfies the criteria of PCT Article 33(2), the applicant should highlight the distinguishing technical feature and link this either with a surprising technical result or provide *prima* facie evidence that this feature cannot readily be deduced from the teaching of the prior art (PCT Article 33 (3)).

4. Miscellaneous

To increase the comprehensibility of the presentation of the subject matter of the application, the description should additionally cite literature references D1 to D5 and briefly outline the relevant prior art contained therein.

| Any inadmissible | broadening | of the | e application | should b | oe |
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| avoided. | | | | | |
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